

INFLUENCE OF PREPARATIONS OF AN EPIPHYSIS ON AGE FEATURES OF STATIC AND DYNAMIC SERVICEABILITY AT RATS AT INFRINGEMENT OF A PHOTOPERIODISM

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It has been found out that light regime determines the age changes of static (hanging on the net) and dynamic (swimming test) physical activity of male rats kept in different light conditions for two years (natural and constant lightning, twelve o'clock night and twelve o'clock day). The photoperiodism breaches such as constant lightning entails earlier decrease of physical endurance of rats in comparison with the rats kept in the conditions of the fixed day and night regime. The rats kept in the conditions of natural photoperiodism of the North-West of Russia showed analogous results. The injections of melatonin and epithalon to the four months rats do not influence the physical activity of young and adult rats. These preparations slow down the age decrease of physical work capacity and thus stimulate the physical activity of the old rats.